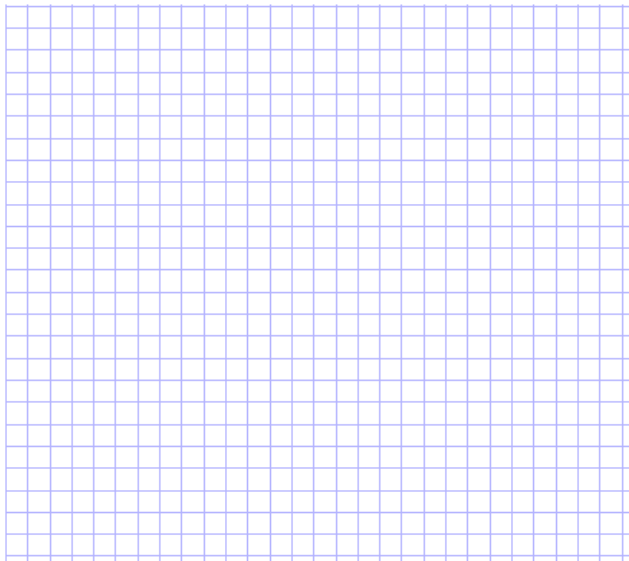


For each of the following pairs of points:

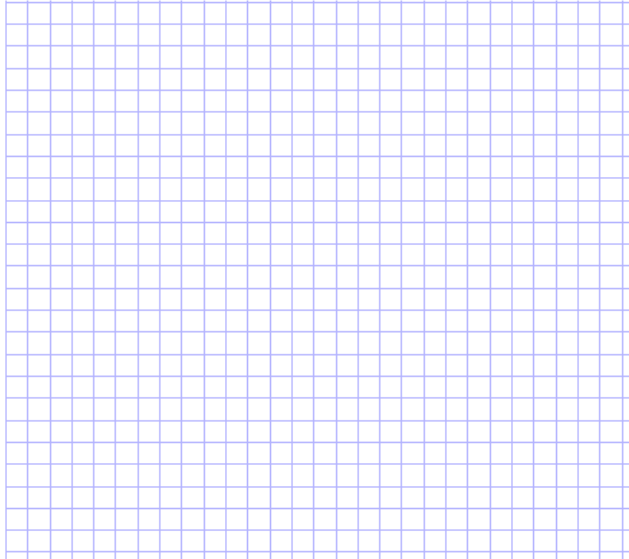
- Graph the ordered pair and draw the segment formed by the two points
- Find the midpoint of the segment
- Determine the length of the segment. Draw the right triangle that helps you to find the distance between the two points.
- Extend the segment to form a line
- Find the slope of the line
- Use the slope and the endpoints to find two more points that will be on the line
- Write a statement about how the change in y corresponds to the change in x

Example: $(-4, 7)$ and $(6, -2)$

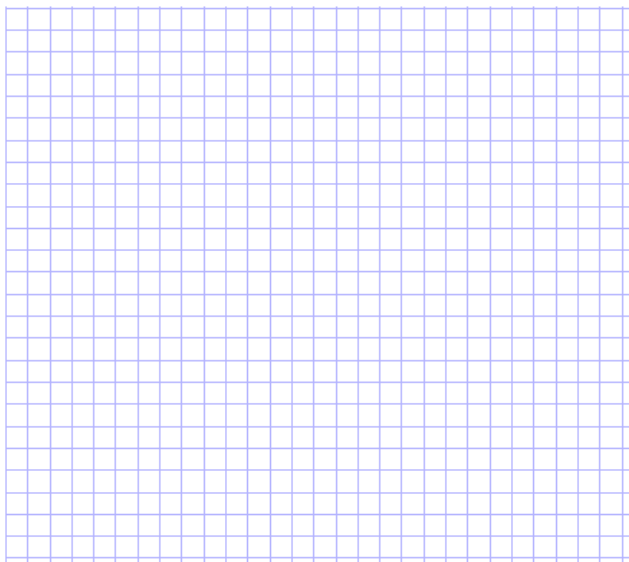


Use the format modeled above for the rest of your problems. To receive full credit you must justify your work.

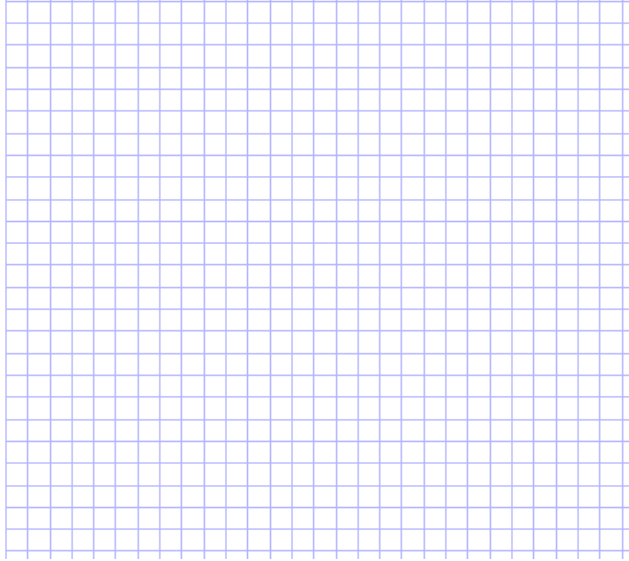
1) $(2, 5)$ and $(6, 13)$



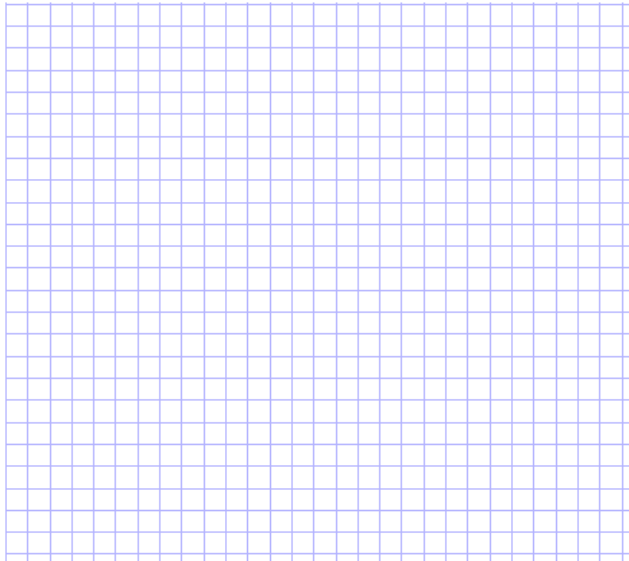
2) $(2, -4)$ and $(-3, 7)$



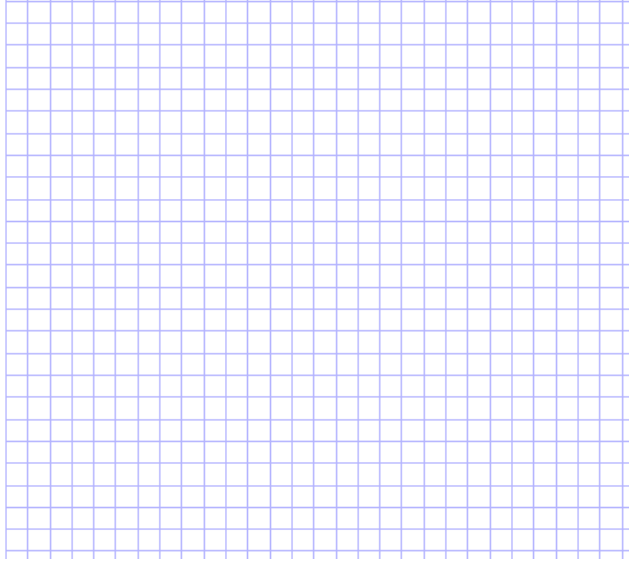
3) $(-4, 5)$ and $(6, 5)$



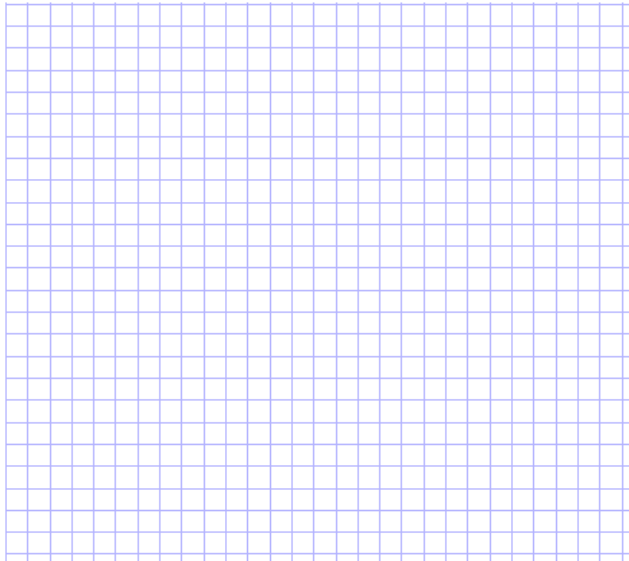
4) $(13, 5)$ and $(-2, 13)$



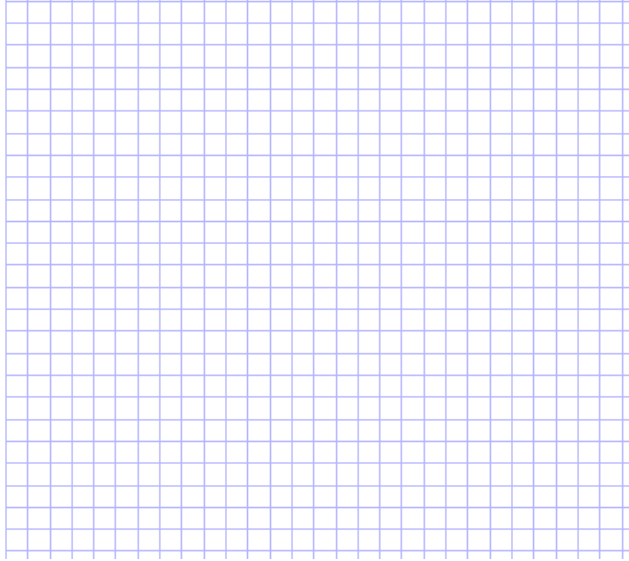
5) $(5, 5)$ and $(-4, -8)$



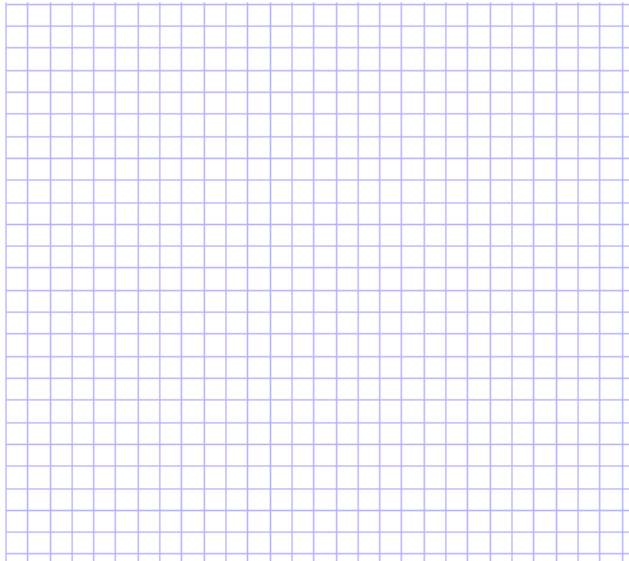
6) $(2, 5)$ and $(2, 13)$



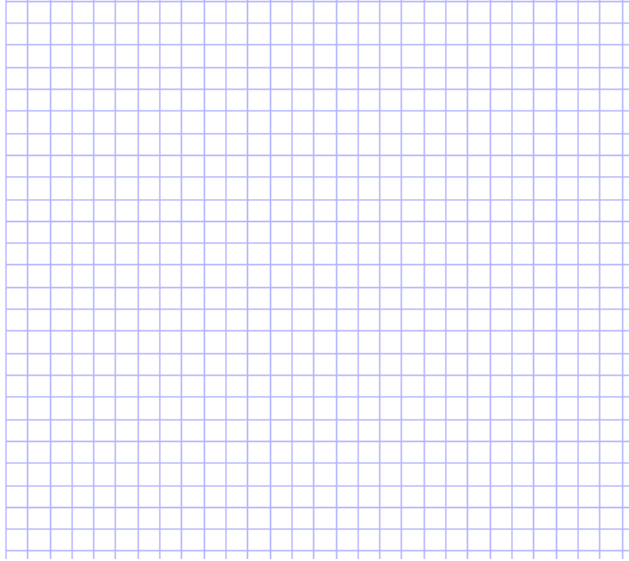
7) $(-6, -3)$ and $(-12, -2)$



8) $(0, 5)$ and $(6, 0)$



9) $(-3, 7)$ and $(-3, 0)$



10) $(8, -5)$ and $(10, 10)$

